

What is claimed is:

1. A liquid type image forming apparatus comprising:

a latent image carrier for carrying a latent image;

5 a developing device for developing the latent image on the latent image carrier into a visualized image by a liquid developer containing a toner in a carrier liquid; and

a transfer device for electrostatically transferring the visualized image on a recording body after the visualized image on the latent image carrier is intermediately transferred onto an intermediate transfer body, wherein

a fluorine compound is contained in at least a surface of said intermediate transfer body, and a heating device for heating the intermediate transfer body is provided.

15 2. The liquid type image forming apparatus according to claim 1, wherein said heating device is disposed so as to heat said intermediate transfer body where is before another visualized image is intermediately transferred from said latent image carrier after said visualized image is transferred onto said recording body.

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3. The liquid type image forming apparatus according to claim 1, wherein said intermediate transfer body includes an elastic layer which has a material of urethane resin and a surface layer which contains the fluorine compound.

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4. The liquid type image forming apparatus according to claim 3, wherein said surface layer includes conductivity.

5. The liquid type image forming apparatus according to claim 3,
wherein said elastic surface includes conductivity.

5 6. The liquid type image forming apparatus according to claim 1,
wherein said heating device has a heating roller which is heated from a
heat source disposed internally and rotates with contacting to said
intermediate transfer body.

10 7. The liquid type image forming apparatus according to claim 1,
wherein said heating device heats said intermediate transfer body
without contacting thereto.

8. The liquid type image forming apparatus according to claim 1,
15 wherein said heating device makes a heating belt, which is moved
endlessly, contact onto said intermediate transfer body with receiving a
heat transfer from a heat source.

9. The liquid type image forming apparatus according to claim 6,
20 wherein said heating roller is a pressing roller for pressing a recording
body, in which a visualized image is transferred from said intermediate
transfer body, toward the intermediate transfer body.

10. An image forming apparatus comprising:
25 an image carrier for carrying an electrostatic latent image;
a developing device for developing the electrostatic latent image
on the image carrier by using a liquid developer which is made of a

carrier liquid and a toner containing resin and pigment;

a primary transfer device for transferring an image on the latent image carrier onto an intermediate transfer body; and

a secondary transfer device for transferring an image on the intermediate transfer body onto a transfer member, wherein

a device for eliminating a substance on an intermediate transfer body having a form roller is provided, and the substance on the intermediate transfer body is eliminated by rubbing a surface of said intermediate transfer body with the form roller.

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11. An image forming apparatus comprising:

an image carrier for carrying an electrostatic latent image;

a developing device for developing the electrostatic latent image on the image carrier by using a liquid developer which is made of a carrier liquid and a toner at least containing resin and pigment;

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a primary transfer device for transferring an image on the image carrier onto an intermediate transfer body; and

a secondary transfer device for transferring an image on the intermediate transfer body to a transfer member, wherein

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a device for eliminating a substance on an intermediate transfer body having a non-woven fabric is provided, and the substance on the intermediate transfer body is eliminated by rubbing a surface of said intermediate transfer body with the non-woven fabric.

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12. An image forming apparatus comprising:

an image carrier for carrying an electrostatic latent image;

a developing device for developing the electrostatic latent image

on the image carrier by using a liquid developer which is made of a carrier liquid and a toner at least containing resin and pigment;

a primary transfer device for transferring an image on the image carrier onto an intermediate transfer body; and

5 a secondary transfer device for transferring an image on the intermediate transfer body to a transfer member, wherein

a device for eliminating a substance on an intermediate transfer body having a brush roller is provided, and the substance on the intermediate transfer body is eliminated by rubbing a surface of said
10 intermediate transfer body with the brush roller.

13. An image forming apparatus comprising:

an image carrier for carrying an electrostatic latent image;

a developing device for developing the electrostatic latent image
15 on the image carrier by using a liquid developer which is made of a carrier liquid and a toner at least containing resin and pigment;

a primary transfer device for transferring an image on the image carrier onto an intermediate transfer body; and

a secondary transfer device for transferring an image on the
20 intermediate transfer body to a transfer member, wherein

a device for eliminating a substance on an intermediate transfer body having a metal blade is provided, and the substance on the intermediate transfer body is eliminated by rubbing a surface of said intermediate transfer body with the metal blade.

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14. An image forming apparatus comprising:

an image carrier for carrying an electrostatic latent image;

a developing device for developing the electrostatic latent image on the image carrier by using a liquid developer which is made of a carrier liquid and a toner at least containing resin and pigment;

a primary transfer device for transferring an image on the image carrier onto an intermediate transfer body; and

a secondary transfer device for transferring an image on the intermediate transfer body to a transfer member, wherein

a device for eliminating a substance on an intermediate transfer body having a substance eliminating member which is harder than the resin composing said toner and is softer than a surface of said intermediate transfer body is disposed, and the substance on the intermediate transfer body is eliminated by rubbing the surface of said transfer body with the substance eliminating member.

15. An image forming apparatus comprising:

an image carrier for carrying an electrostatic latent image;

a developing device for developing the electrostatic latent image on the image carrier by using a liquid developer which is made of a carrier liquid and a toner at least containing resin and pigment;

a primary transfer device for transferring an image on the image carrier onto an intermediate transfer body; and

a secondary transfer device for transferring an image on the intermediate transfer body to a transfer member, wherein

a device for eliminating a substance on an intermediate transfer body having a substance eliminating member which has a rougher surface roughness than a surface of said intermediate transfer body, and the substance on the intermediate transfer body is eliminated by

rubbing the surface of the intermediate transfer body with the substance eliminating member.

16. An image forming apparatus comprising:

an image carrier for carrying an electrostatic latent image;

5 a developing device for developing the electrostatic latent image on the image carrier by using a liquid developer which is made of a carrier liquid and a toner at least containing resin and pigment;

a primary transfer device for transferring an image on the image carrier onto an intermediate transfer body; and

10 a secondary transfer device for transferring an image on the intermediate transfer body to a transfer member, wherein

a device for eliminating a substance on an intermediate transfer body which sprays a high temperature vapor to said intermediate transfer body is provided.

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17. The image forming apparatus according to claim 10, wherein said device for eliminating the substance on the intermediate transfer body is provided with a mechanism for cooling an intermediate transfer body for cooling at least the surface of said intermediate transfer body.

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18. The image forming apparatus according to claim 10, wherein said device for eliminating the substance on the intermediate transfer body is provided with a heating mechanism of an intermediate transfer body for heating at least the surface of said intermediate transfer body.

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19. The image forming apparatus according to claim 10, wherein said device for eliminating the substance on the intermediate transfer

body is provided with a solvent coating mechanism for dissolving the resin composing said toner and for adhering a solvent which does not dissolve the surface of said intermediate transfer body to the surface of the intermediate transfer body.

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20. The image forming apparatus according to claim 10, wherein a cleaning member is disposed in a downstream of the device for eliminating the substance on the intermediate transfer body with respect to a rotation direction of said intermediate transfer body.

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21. The image forming apparatus according to claim 10, wherein said liquid developer contains liquid type resin in a using environment.

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22. The image forming apparatus according to claim 10, wherein a substance elimination on said intermediate transfer body by said device for eliminating the substance on the intermediate transfer body is carried out when an image is formed.

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23. The image forming apparatus according to claim 10, wherein a substance elimination on said intermediate transfer body by said device for eliminating the substance on the intermediate transfer body is carried out when an image is not formed.

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24. The image forming apparatus according to claim 23, wherein the substance elimination on said intermediate transfer body by said device for eliminating the substance on the intermediate transfer body is carried out every a regular time interval.

25. The image forming apparatus according to claim 23, wherein the substance elimination on the intermediate transfer body by said device for eliminating the substance on the intermediate transfer body is carried out every a predetermined number of print.

26. The image forming apparatus according to claim 10, wherein the several devices for eliminating the substance on the intermediate transfer body are combined to use.

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27. An image forming apparatus comprising the steps of:
primary transferring an image on an image carrier, which is developed by using a liquid developer containing a liquid type resin in a using environment, onto an intermediate transferring device;
15 secondary transferring an image on the intermediate transfer body onto a transfer member; and
eliminating a substance on said intermediate transfer body.